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16		Case No. 3:20-cv-06754-WHA Related to Case No. 3:21-cv-07559-WHA		
17	GOOGLE LLC,	GOOGLE LLC'S REPLY IN SUPPORT		
18	Plaintiff,	OF MOTION FOR SUMMARY JUDGMENT		
19	VS.	The Hon. William H. Alsup		
20	SONOS, INC.,	Date: March 30, 2023 Time: 8:00 a.m.		
21	Defendant.	Location: Courtroom 12, 19th Floor		
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Case No. 3:20-cv-06754-WHA

GOOGLE'S REPLY ISO SUMMARY JUDGMENT

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1	Transcript from the January 6, 2023 Deposition of Janos Levai	
November 30, 2022 Opening Expert Report of Dr. Dan Schonfeld Regarding U Patent No. 10,848,885 and U.S. Patent No. 10,469,966		
3	November 30, 2022 Opening Expert Report of Dr. Kevin C. Almeroth  Exhibit Q to the November 30, 2022 Opening Expert Report of Dr. Kevin C. Almeroth	
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Sonos's response fails to identify any genuine disputes of material facts as to any of the issues on which Google has moved for summary judgment. Google's motion should be granted<sup>1</sup>

#### THE ASSERTED CLAIMS OF THE '033 PATENT ARE INVALID I.

#### Google Is Not Judicially Estopped From Arguing That The YTR Uses A Α. Remote Playback Queue

During the showdown, the invalidity dispute focused on a limitation of the '615 patent reciting that a playback device stores "a local playback queue" (the "LPQ" limitation). Google argued that Version 1 of the YTR application ("YTR1") anticipated this limitation because YTR1 created a playback queue stored locally on a playback device in the context of user-created playlists. Dkt. 221-3 at 16-18. By 2014, however, the ability to store a local playback queue had been discontinued. Id. at 5. Thus, when playback devices in the currently accused YouTube systems play media, the playback queue is stored in the cloud, and playback devices temporarily cache the current and next (and sometimes previous) items in the cloud queue. *Id.* at 7-10. But nothing about YTR1's use of a local playback queue for user-created playlists (a showdown issue) has anything to do with the "party mode" or service-recommended functionalities of Version 2 of the YTR application ("YTR2") (at issue here). Sonos's judicial estoppel argument thus has no merit.

To determine if estoppel applies, courts apply a three-part test: whether (1) a party's later position is "clearly inconsistent" with its earlier position; (2) the party "succeeded in persuading a court to accept" the earlier position; and (3) the party would "derive an unfair advantage or impose an unfair detriment" on the other side if not estopped. New Hampshire v. Maine, 532 U.S. 742, 750-51 (2001). "[J]udicial estoppel is reserved for more egregious conduct than just threshold inconsistency." Balfour Beatty Infrastructure, Inc. v. PB&A, Inc., 2017 WL 1739101, at \*5 (N.D.

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Sonos asserts that Google has filed "four motions" for summary judgment. Dkt. 483. Sonos points to the Court's Case Management Order, which states "a movant should base its motion on its best ground for summary relief" (Opp. at 1), yet that paragraph also directs a party to "alert the other side of the specific grounds for its contemplated motion [for summary judgment]." Dkt. 67 ¶ 20 (emphasis added). Sonos's argument is inconsistent with its position that Google waived any invalidity grounds that it did not assert in its "showdown" summary judgment motion. Dkt. 448 at 1, 5. Regardless, parties regularly file summary judgment motions on multiple grounds. See, e.g., MasterObjects, Inc. v. Meta Platforms, Inc., 2022 WL 12039301, at \*1 (N.D. Cal. Oct. 20, 2022); Straight Path IP Grp., Inc. v. Cisco Sys., Inc., 2017 WL 6372971, at \*1 (N.D. Cal. Dec. 13, 2017).

Cal. May 4, 2017) (internal quotations and citations omitted). None of the factors are met here.

First, there is no inconsistency in (i) YTR1 using a local playback queue for user-created playlists and (ii) YTR2 using a remote playback queue for entirely separate scenarios—i.e., party mode and service-recommended playlists. Indeed, Google never "told the Court that the existence of a 'local playback queue' in a system is 'mutually exclusive of a 'remote playback queue'" during the showdown (Opp. at 2). The statements quoted by Sonos simply explain that the accused YouTube applications "maintain the queue" in the cloud and that the ability of a "speaker" to ask the cloud queue for the "next item in the queue" does not disclose a local playback queue. Dkt. 308 at 59:16-60:9. And Google's expert made clear that he was **not** taking the position that a local playback queue is mutually exclusive of a remote playback queue:

Dr. Schmidt contends that the "core" of my non-infringement opinion "is the faulty premise that a 'local playback queue' and a 'Cloud Queue' are mutually exclusive.", , , This is a misunderstanding or misrepresentation of my position regarding the differences between a "cloud queue" and a "local playback queue."

..

Dr. Schmidt states: "I see nothing in claim 13 that precludes the possibility that some other queue (e.g., a cloud queue) might exist in the system beyond the claimed 'local playback queue.'" Schmidt Rpt., ¶277. I have not precluded such an architecture. . . . A system might store the playback queue both at the local playback device and remotely. This is not the case with the accused products.

Dkt. 355 at 13 (citing Bhatta. Reb. Showdown Rpt.) ¶¶ 319-20 (emphasis added). Nor did Google argue that YTR uses "only" a local playback queue during the showdown. The statements quoted by Sonos explain that (i) YTR1 was able to store a local playback queue on the playback device and (ii) by the time of the accused YouTube applications, Google eliminated that ability in favor of maintaining the playback queue in the cloud. Regardless, any statements made during the showdown necessarily related only to the YTR1 functionality at issue there—namely, where a user created her own personal playlist (that was not shared in party mode). Such statements cannot be understood to apply to the separate and distinct YTR2 functionalities at issue here—party mode and service-recommended playlists. For this reason alone, there is no judicial estoppel here.

Second, the Court has not adopted any position that is contrary to YTR2's use of a remote playback queue in the context of party mode and service-recommended playlists. The Court's Showdown Order does not include any statements regarding party mode or service-recommended

playlists, neither of which was at issue. Nor does the Order take the position that YTR prior art used only a local playback queue in all modes. The Court granted summary judgment of non-infringement because it found that "no locally-stored queue" exists in the accused YouTube applications, and it granted summary judgment of invalidity because it found that YTR1 used a locally stored queue on the playback device in the context presented (i.e., a user-created playlists). Dkt. 316 at 8-10, 17.

Nothing in those opinions is contrary to YTR2 disclosing a remote queue in the different contexts described below. There is no inconsistency or "unfairness," and estoppel does not apply.

B. YTR2 Discloses A "Remote Playback Queue"

#### 1. Party Mode

It is undisputed that YTR2 included a "party mode," and that a YTR system operating in party mode used a "party queue" provided by a "Lounge Server" in the cloud. "Mot." at 6-9; *id.*, Ex. 11 ¶¶ 298, 300, 327. The party queue is a "remote playback queue" under the Court's construction of "playback queue"—i.e., "a list of multimedia content selected for playback." Dkt. 316 at 5. Sonos does not dispute that the party queue [1] maintains identifiers for the list of videos that have been "selected for playback" and [2] is "remote" in that it is not local to the computing (e.g., phones) and playback (e.g., TVs) devices. Mot. at 6-7. This alone should end the inquiry.

But Sonos tries to argue that the party queue is not a "remote playback queue" by ignoring the Court's construction and presenting arguments grounded in the following premise: a system can use either (i) a "remote playback queue" stored in the cloud or (ii) a "local playback queue" stored on the playback device (but not both). Opp. at 3-7. In particular, Sonos claims that because a playback device stores a copy of the party queue received from the Lounge Server in a "local playback queue," the YTR cannot include a "remote playback queue." *Id.* at 6. Sonos's argument is inconsistent with its infringement positions and its expert's opinion that "just because a sender

<sup>&</sup>lt;sup>2</sup> Sonos avoids using the term "party queue" (using "party playlist" instead). Sonos does not identify relevant distinction between the terms, and the source code refers to a "party *queue*." Mot. at 6-7. <sup>3</sup> Sonos argues that a "local playback queue" must exist on the playback device because "even if the Lounge Server (MDx Server) goes offline," the playback device can continue to play the queue. Opp. at 6-7. But the paragraph of Dr. Schmidt's report that Sonos cites for this argument (Opp., Ex. F ¶ 211) says the opposite: that the playback device is *unable* to play the queue unless a "session is active." Mot., Ex. 11 ¶¶ 178-179 (active session requires Lounge server to be online).

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device might *maintain* a local copy of a queue does not necessarily mean that there is not also a remote playback queue *provided* by a cloud-based computing system." Mot. at 7-8; Dkt. 506-1 ¶ 480 (emphasis in the original). Sonos has not attempted to explain its inconsistent positions. And, of course, "claim terms must be 'construed the same way for both invalidity and infringement." *01 Communique Lab., Inc. v. Citrix Sys., Inc.*, 889 F.3d 735, 743 (Fed. Cir. 2018). Sonos's assertion that a local and a remote playback queue are mutually exclusive has no basis.

Even accepting Sonos's premise that a system can include only one queue, Google has shown that when in party mode, it is the party queue in the cloud that dictates the list of videos to be played by a playback device. Mot. at 8. Sonos responds that the cloud-hosted party queue is irrelevant because playback devices "do not depend" on it to play back videos, citing only an incomplete excerpt of testimony from Google engineer Janos Levai. Opp. at 7. But Mr. Levai's actual testimony does not support this argument. In full, Mr. Levai testified that the cloud-hosted party queue is the "source of truth" for the list of videos selected for playback and provides "all the devices in the session with that list"; it is that list, received from the cloud, that the device refers to when deciding which video to play next. Ex. 1 at 59:5-14. Moreover, Sonos's expert also admitted that when the party queue is edited, the playback devices depend on the queue in the cloud to receive those edits. Mot., Ex. 19 at 193:17-196:23; *see also* Mot. at 4, 8. Thus, all of the evidence confirms that the party queue in the cloud is a "remote playback queue."

Sonos wrongly contends that "there is no relevant difference between the YTR party mode and non-party mode," implying that Google is characterizing the "same" functionality it argued was a "local playback queue" during the Showdown as a "remote playback queue" here. Opp. at 3-6. That is incorrect. During the showdown, Google showed that the YTR prior art allowed a user to create a queue on the user's device (with no corresponding queue in the cloud), and accurately identified that user-created queue as a "local playback queue." Dkt. 221-3 at 16-17. Here, Google has shown that the YTR prior art *also* allowed the creation of a shared party queue (in which a queue in the cloud runs the show) when in party mode, and accurately identified that as a "remote playback queue." In other words, the YTR prior art uses different queues in different modes. The use of

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party queue (relevant here) as a remote playback queue renders the '033 patent invalid.<sup>4</sup>

#### 2. Service-Recommended Videos

In addition, Google's motion also pointed to another separate instance of a "remote playback queue" in the YTR prior art—namely, lists of service-recommended videos provided by the YouTube cloud infrastructure for playback on devices. Mot. at 10-11. Sonos does not respond on this point, and Sonos itself claims that the same lists of service-recommended videos in the accused products constitute "remote playback queues" for purposes of infringement. Mot. at 9-11; Dkt. 482-6 ¶ 298-99, 326. Thus, there is no dispute that the YTR prior art uses a "remote playback queue" when service-recommended videos are played back by users.

#### C. The YTR Discloses Limitation 1.7 Of The '033 Patent

Limitation 1.7 of the '033 patent begins by reciting that the computing device "transmit[s] an instruction for the at least one given playback device to take over responsibility for playback of the remote playback queue from the computing device." Sonos agrees that a computing device running YTR2 transmits an instruction (a SET\_VIDEO message) for a playback device to take over playback responsibility. Opp. at 9. Sonos argues that the instruction is not for taking over playback responsibility of "the *remote* playback queue" because playback devices in the YTR system "use a *local* playback queue." *Id.* at 8 (emphasis in the original). But, as shown above, the party queue is a "remote playback queue" under the Court's construction. Section I.B.

The remainder of Limitation 1.7 recites that "the instruction configures the at least one given playback device to (i) communicate with the cloud-based computing system in order to obtain data identifying a next one or more media items that are in the remote playback queue, (ii) use the obtained data to retrieve at least one media item in the remote playback queue from the cloud-based media service; and (iii) play back the retrieved at least one media item." Google showed that after receiving the instruction, the playback device plays the videos in the party queue by [1] communicating with a Player Service to obtain Bandaid URLs, [2] using the obtained Bandaid URLs

<sup>&</sup>lt;sup>4</sup> Sonos has, at best, shown that party mode and user-created playlists use some of the "same infrastructure." Opp. at 4-6. That is irrelevant to the issue here. Moreover, the very infrastructure Sonos points to as the "same" (*e.g.*, MDx Servers, SET\_PLAYLIST) in the YTR prior art also exists in the accused YouTube systems, only furthering the case for invalidity.

to retrieve the content for videos in the party queue, and [3] playing the retrieved video content. Mot. at 11. Sonos does not challenge that this is how the prior art operates.

Instead, Sonos argues that Bandaid URLs are not "data identifying a next one or more media items," as recited in subpart (i) of Limitation 1.7. Opp. at 8-11. As a preliminary matter, Sonos's argument should be rejected because it is inconsistent with the opinions of Sonos's expert, Dr. Schmidt, whose opening report on infringement accused Bandaid URLs of being "data identifying a next one or more media items." Mot. at 12 (citing Ex. 14 ¶ 502). But even setting this inconsistency aside, the arguments Sonos raises in its opposition are meritless.

First, Sonos argues that "videoIds, not the Bandaid URLs, constitute the received 'data identifying... media items' in subpart (i)." Opp. at 8-9. But the claims and specification indicate that the "data identifying... media items" must be the data that the playback device uses "to retrieve" and "play back" the audio and video content that is played back (the media item). Mot. at 12 (citing Limitations 1.7(ii), (iii) & '033 patent at 11:65-12:4). There is no dispute—and Sonos's expert has admitted—that Bandaid URLs are what a playback device uses to retrieve and play back the audio and video content in the YTR system. Mot. at 12 (citing Ex. 19 at 147:6-148:10); see also Opp., Ex. E ¶ 164 (playback device "uses the one or more [Bandaid] URLs to retrieve the media item from one or more 'Bandaid' servers . . . and then render [i.e., play back] the retrieved media item"). <sup>5</sup>

Second, Sonos admits that after a playback device receives a SET\_VIDEO message (the instruction) it will obtain a Bandaid URL for the video in the party queue that should begin playing (e.g., Video A). Opp. at 9. But Sonos argues that the initial video (Video A) is the "current media" item, such that the "Bandaid URLs Google points to only identify the *current* media item for playback, *not* the next media item, as required by subpart (i)." *Id*. Here, Sonos ignores the evidence showing that a playback device *also* obtains Bandaid URLs for each of the next videos in the party queue (Video B, Video C, etc.). Mot. at 11; *see also* Dkt. 482-6 ¶¶ 328-29 ("for each item of media to be played back, the [] player issues a [] request to obtain a Bandaid URL"). Sonos points to no

<sup>&</sup>lt;sup>5</sup> Sonos mischaracterizes the dispute as whether the "data identifying . . . media items" "must be a URL, and not a videoId." Opp. at 8. That is not the dispute. Google agrees that a videoId *or* a URL can be "data identifying . . . media items," so long as they are data that the playback device uses to retrieve the audio and video content that is played back. In the YTR, that data is the Bandaid URL.

contrary evidence: the only paragraphs of Dr. Schmidt's validity report cited (Opp. at 8, Ex. F ¶¶ 176, 212) do *not* discuss how a playback device plays a next video (or mention Bandaid URLs).<sup>6</sup>

Third, Sonos argues that Limitation 1.7(i) requires that the playback device fetch the "data identifying . . . media items" directly "from [the] remote playback queue." Opp. at 9-10. But the claims merely recite that the data identify "media items that are in the remote playback queue," not that the data come <u>from</u> the remote playback queue. Indeed, the claims expressly state that the playback device "communicate[s] with the cloud-based computing system" generally—not the remote playback queue specifically—to obtain the data.

#### II. THE ASSERTED '885 AND '966 PATENT CLAIMS ARE INVALID AS OBVIOUS

Nearly a full year before Sonos's claimed conception date, Sonos launched its "networked multi-zone audio system" that included speaker grouping technology. *See* Mot., Ex.  $6 \, \P \, 265$ ; Opp. at 10-11. But Sonos and others recognized that there was one obvious drawback to this system, which was that users could not save the groups that they had created. *Id.* at 11-12. Users would thus have to recreate the same groups over and over if they wanted to use those groups at later points in time. *Id.* Thus, according to Sonos, the alleged point of novelty in the asserted claims—the "zone scene"—is merely the ability to *save* those speaker groups that users created.

This is an exceedingly obvious modification to a computerized system. The idea of saving information has been an intrinsic part of computers since they were invented. And nearly eight months before Sonos's conception date, Sonos received the suggestion from users to add the ability to save groups to Sonos's prior art system—exactly what Sonos claims distinguished its purported invention over the prior art. Mot. at 16-17.

#### A. Sonos 2005 System and Sonos Forums Render Obvious the Disputed Elements

None of the foregoing is disputed. Instead, Sonos argues that neither the Sonos 2005 system nor the Sonos Forums, taken separately, by themselves disclose each and every element of the claims. For the Sonos 2005 system, Sonos argues that the system did not include the ability to save groups. Opp. at 12-13. This is inaccurate, as saving a group of speakers could be invoked by

<sup>&</sup>lt;sup>6</sup> Sonos also points to two pages in Dr. Schmidt's opening infringement report (Opp. at 9, Ex. E ¶¶ 162-66), but those paragraphs do not relate to the YTR prior art.

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selecting "party mode." Regardless, Sonos's argument misses the point. Google does not argue anticipation in its motion; Google argues that it would have been *obvious* to modify the existing Sonos 2005 system to add the feature that Sonos users suggested would improve the product, and that many other products in the same field already included—namely, saving user-created groups.

Similarly, although Sonos appears to concede that the Sonos Forum posts disclose saved and overlapping groups, Sonos argues that those posts do not disclose the "claimed communications between the zone players and controllers necessary for setting up and invoking zone scenes." Opp. at 13-14. But again, Google is not arguing that the Sonos Forums alone *anticipate* the asserted claims. And Sonos does not and cannot dispute that the Sonos 2005 system already provided the claimed communications between the zone players and controllers necessary for setting up and invoking *unsaved* speaker groups. *See id.*; Mot. at 18. The simple suggestion made by users of the Sonos 2005 system, and readily understood and implementable by a person of skill in the art, would be to use the *same* functionality for *saved* speaker groups. That is, saving the groups was obvious.

Next, Sonos argues that the combination of the Sonos 2005 system and the Sonos Forums does not disclose the claimed "standalone mode." Opp. at 14-15. But elsewhere, Sonos argues that any speaker that is not part of a group is, by definition, in standalone mode. Opp. at 20. Thus, any ungrouped speaker in the Sonos 2005 system was, under Sonos's own definition, in standalone mode when added to a user-created (unsaved) group—rendering standalone mode disclosed by the Sonos 2005 system. Regardless, it would have been at least obvious to try having a speaker remain in standalone mode when being added to a group given that, per Sonos, a speaker can be only in either standalone mode or group mode at any given time (Ex. 3 ¶ 109 ("each 'zone player' operated in one of two states at any given time")). \*\* KSR Int'l Co. v. Teleflex, Inc., 550 U.S. 398, 421 (2007).

Finally, Sonos argues that this combination does not disclose storing "zone scenes" at a speaker as required by dependent claim 4. Opp. at 15. But the existing Sonos 2005 system already stored (albeit temporarily) the linked groups at the speaker. Mot., Ex. 8 ¶¶ 353-56. It was thus obvious to store this same grouping information persistently.

<sup>&</sup>lt;sup>7</sup> This is true also in the context of Google's position that there are more than just two alternative states a speaker can be in—standalone mode, group mode, or no/inactive mode. *Infra* §III.

# B. There is a Motivation to Combine Sonos 2005 System and Sonos Forums, and a Reasonable Expectation of Success

Sonos does not raise any genuine dispute that there is a motivation to modify the Sonos 2005 system as suggested by the Sonos Forums. Sonos argues that *Optivus Technology, Inc. v. Ion Beam Applications S.A.*, 469 F.3d 978, 989-91 (Fed. Cir. 2006) is not applicable because there "the reference itself disclosed the motivation to combine" (Opp. at 16), but the same is true here. Sonos does not dispute that the Sonos Forums were used to offer feature suggestions for Sonos products, nor does Sonos dispute that Sonos product engineers reviewed those forums to understand users' concerns regarding the products. Mot. at 16. Accordingly, Sonos user suggestions provided an explicit motivation to modify the Sonos 2005 system to incorporate saved speaker groups. Sonos's argument that adding the ability to save a speaker group would have required "tradeoffs" resulting in an "unappetizing combination," *see Henny Penny Corp. v. Frymaster LLC*, 938 F.3d 1324, 1331-32 (Fed. Cir. 2019), is meritless. There is no evidence that simply saving created speaker groups would result in the "decreased efficiency" suffered by the combination in *Henny Penny*; to the contrary, Sonos and others did implement saved groups without any adverse consequences. 8 *Id.* 

Sonos also argues that because other (post-conception date) Forum posts speculated that overlapping speaker groups would be "logically impossible" and "stupid," a person of skill in the art would not have been motivated to make the suggested modification. Opp. at 17. Even accepting arguendo that the alleged non-prior art Forum posts are relevant, the Forum posts as a whole show that many users requested and proposed reasonable implementations for saving overlapping speaker groups. Mot. at 16-17. That some users did not see this as a valuable feature does *not* mean the explicitly suggested modification to the Sonos 2005 system was not disclosed and obvious. <sup>9</sup> Sonos does not identify any structural limitations in the Forum posts that would have prevented a person of skill in the art from implementing overlapping groups and cites no authority for its new position that a feature must be universally perceived as beneficial to have been obvious. *Contra Gator Tail*,

<sup>&</sup>lt;sup>8</sup> Sonos argues that the prior art "ad-hoc grouping" was praised in the industry (Opp. at 16), but this is not consistent with users' suggestion to *improve* that system by adding saved groups.

<sup>&</sup>lt;sup>9</sup> Sonos also argues that the Sonos Forums did not suggest modifying the Sonos 2005 system to communicate the zone scenes between a controller and a speaker (Opp. at 17), but as discussed *supra*, the communication functionality was already present in the Sonos 2005 system.

LLC v. Mud Buddy LLC, 618 F. App'x 992, 999 (Fed. Cir. 2015) ("if a reference describes a modification as 'somewhat inferior,' then the reference does not teach away").

#### C. The Prior Art is Enabling

Sonos argues that the combination of the Sonos Forums and Sonos 2005 system would not "enable a skilled artisan to make and use the claimed invention" because they do not teach "critical details" such as the "programming" for how the speakers would interact with a controller, how the speakers would operate, and how they would be commanded to play back music. <sup>10</sup> Opp. at 17-18. But, critically, the patent claims also do not recite any of these "details" or "programming." And each piece of prior art does not need to be "self-enabled" to render patent claims invalid through their disclosures. *ABT Sys., LLC v. Emerson Elec. Co.*, 797 F.3d 1350, 1360 n.2 (Fed. Cir. 2015). Moreover, here, the Sonos 2005 system *already* disclosed the structural functionality, "details," and "programming" associated with speaker groups, including saving user-created groups temporarily and saving the "party mode" speaker group persistently. Mot. at 18-19. No "programming" or "critical details" were required to teach how to save additional information. *Id.* 

#### D. There Is No Objective Evidence of Non-Obviousness

Sonos's alleged evidence of secondary considerations cannot overcome Google's strong prima facie case of obviousness. *ZUP, LLC v. Nash Mfg., Inc.*, 896 F.3d 1365, 1375 (Fed. Cir. 2018) ("[W]here a claimed invention represents no more than the predictable use of prior art . . . evidence of secondary indicia are frequently deemed inadequate"). Sonos argues that the claimed ability to "save a group of speakers" received "substantial praise in the industry," but none

None of the enablement cases cited by Sonos are relevant. In *Auto. Techs. Int'l, Inc. v. BMW of N. Am., Inc.*, 501 F.3d 1274, 1284 (Fed. Cir. 2007), the court held that "side impact sensing was a new field and that there were no electronic sensors in existence that would detect side impact crashes," whereas here, the simple act of saving information on a computerized system was well known. Similarly in *Nat'l Recovery Techs., Inc. v. Magnetic Separation Sys., Inc.*, 166 F.3d 1190, 1197 (Fed. Cir. 1999), the court found enablement lacking where the claim covered the "theoretical possibility it might be feasible to construct a system that ignores every single perturbation and flaw in virtually all of the items processed," which is a far cry from the simple act of saving information. Finally, *Pi-Net Int'l Inc. v. JPMorgan Chase & Co.*, 42 F. Supp. 3d 579, 592 (D. Del. 2014), concedes that the reference "need not disclose what is well-known in the art," as is the case here, and instead found written description lacking because the specification provided no guidance on what a "'VAN switch' is and how it accomplishes 'object routing' or real-time transactions."

of this praise came from Sonos's *competitors*, where evidence of praise would be most probative. *Apple Inc. v. Samsung Elecs. Co.*, 839 F.3d 1034, 1053-54 (Fed. Cir. 2016). Furthermore, as discussed *supra*, the simple act of saving a speaker group was already known in the prior art and utilized by Sonos's competitors, and therefore it is not relevant to secondary considerations. *ClassCo, Inc. v. Apple, Inc.*, 838 F.3d 1214, 1220-21 (Fed. Cir. 2016).

## III. GOOGLE'S REDESIGNED PRODUCTS DO NOT INFRINGE ANY ASSERTED CLAIM OF THE '885 OR '966 PATENTS

Sonos's opposition misses the key reason why Google's redesigned speakers cannot and do not infringe: Google's speakers are not always in "standalone mode" or "group mode." Rather, they can be, and often are, *inactive* (not in either mode) because a user has not yet chosen a playback mode. Ex. 7 ¶¶ 3-4. When the speakers are inactive (*e.g.*, awaiting commands), a user is equally able to (i) invoke multiple speakers to operate in group mode (by selecting a particular group for playback) or (ii) invoke one speaker to operate in standalone mode (by selecting one speaker for playback). *Id.* There is nothing about inactive speakers that is more "standalone" than "group" or vice versa – they are simply a speaker system waiting for instructions. *See* Ex. 4 at 178 (speaker system awaiting instruction to play Master Bedroom, Living Room, Kitchen, Morning, or Evening).

The patent claims require that a speaker already operating in "standalone mode" remain in standalone mode after its addition to a group. Google's redesigned speakers do not meet this requirement because (i) a speaker that is inactive or operating in a group mode prior to being added to a new group is not operating in standalone mode when it is added to the group, and (ii) a speaker that is operating in standalone mode when added to a group terminates playback, becomes inactive, and then operates in group mode if the group is operating (or remains inactive if the group is not).

# A. Sonos and Dr. Almeroth's Assumption That Inactive Speakers Must Be in "Standalone Mode" Is Unsupported and Illogical

As a matter of semantics, Dr. Almeroth self-servingly elects to label all speakers as in "standalone mode" unless they are playing as part of a launched group. Ex. 5 at 69:11-12, 61:5-8, 61:19-22; Mot., Ex. 3 ¶¶ 126, 410. But there is no evidence—nothing about the asserted patent claims or the accused products—that supports this labeling. To the contrary, the patent claims call for a speaker that is "operating in a standalone mode," which excludes not just speakers that are

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operating in a group mode (as part of "a launched group") but also those not operating in any mode. Dr. Almeroth cites no *evidence* to support his *ipse dixit* assumption that a speaker that is not operating at all is actually "operating in standalone mode" per the patent claims.

He does, however, cite evidence consistent with the fact that inactive speakers are not operating in any mode. For example, he accuses Google's "launch" function of triggering "grouped mode" when a user selects a group. Ex. 3 ¶ 415. But critically, it is the same "launch" function that triggers "standalone mode" when a user selects an individual speaker for playback. Ex. 6 at 211:5-12. Prior to receiving a launch message, speakers are in an "inactive state" (in Dr. Almeroth's words)—they are not in any playback mode. As another example, Dr. Almeroth concedes that after a group has been launched, the accused speakers may "transition back and forth between standalone mode and grouped mode depending on how the users interact with the Google system." Dkt. 483-4¶ 410. That is, he admits that it is a user's instruction that determines whether a speaker operates in standalone mode or group mode. Although Dr. Almeroth concedes this point only after a group has been launched, it is equally true at all other times: a speaker operates according to the instruction provided by the user; without an instruction, a speaker is not operating in any mode.

Finally, despite Dr. Almeroth relying on the "launching" of a receiver app on the speaker group as configuring that group for synchronous playback and configuring a speaker to operate in a particular mode, Sonos argues that *reversing* this step has no effect on the configuration of a speaker. Opp. at 21-22. This position is inconsistent. If Dr. Almeroth is correct (Ex. 3 ¶ 415), then Google's redesign, which stops the receiver app from running on the speaker, takes the speaker out of its playback mode and renders it inactive. See Ex. 7 ¶¶ 4-5.

#### В. Sonos's Reliance on the Summary Judgment Order Is Misplaced

Sonos also attempts to rely on the Court's previous summary judgment order to show that "standalone mode" is met in the accused products. But that order did not address "standalone mode" in the infringement context for the simple reason that prior to Google's redesign, Sonos accused Google's products of infringement where a speaker added to a group would continue to "operate in a standalone mode" via playback. E.g., Ex. 3 ¶ 212; Ex. 4 at 153. Accordingly, Google did not dispute the "standalone mode" limitation in the prior round of briefing, and the Court did not analyze

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# it. The portion of the summary judgment order cited by Sonos exclusively discusses written description support for "standalone mode," Dkt. 309 at 15-17, not holding (or even analyzing) whether Google's "accused players satisfy the 'standalone mode' limitations." Compare Opp. at 21 with Dkt. 309 at 15-17. The prior order is not relevant to the infringement issues in dispute now.

#### C. Sonos's Attempt to Distinguish the '966 Patent Claims Fails

Sonos argues that Google's redesign does not apply to the '966 patent claims because, unlike the claims of the '885 patent, "the asserted claims of the '966 Patent do not require that a Google media player *continue* to operate in 'standalone mode." Opp. at 23. Sonos relies on *SRI Int'l v. Matsushita Elec. Corp.*, 775 F.2d 1107, 1122 (Fed. Cir. 1985), but that case involved claim differentiation, which is not at issue here because Sonos is comparing the claims of two *different* patents. Even if claim differentiation did apply, however, Sonos's argument would still fail because Google's redesign prevents the computing device from operating in standalone mode *when* (not after) it is added to a group because of the operation of the StopCurrentApp() and AddGroup() commands. Mot. at 21-22. Accordingly, Google's redesign does not infringe because the first zone player does not remain in standalone *mode* when added to a speaker group—regardless of the fact that it also no longer continues to operate in standalone mode afterward.

#### IV. SONOS'S WILLFUL AND INDIRECT INFRINGEMENT CLAIMS FAIL

Sonos asserts that it does not have to identify facts regarding Google's knowledge of the patent and infringement or its specific intent to infringe because the Court held that Sonos's allegation regarding Google's declaratory judgment complaint for the '033 and '966 patents was sufficient to survive a motion to dismiss. *See* Opp. at 24; *Sonos, Inc. v. Google LLC*, 591 F. Supp. 3d 638, 647 (N.D. Cal. 2022) ("MTD Order"). But Sonos conflates its burden at the complaint stage—which only required pleading "with *plausibility*" (Dkt. 210 at 5)—with its burden at the summary judgment stage—which requires Sonos to "go *beyond the pleadings* and *identify facts* which show a genuine issue for trial." *Fairbank v. Wunderman Cato Johnson*, 212 F.3d 528, 531 (9th Cir. 2000). Indeed, the Court expressly caveated that Sonos's allegation was "enough at *th[at] stage* to allege specific intent" but that any "questions about the *reality* of Google's subjective intent and potential egregious behavior will be dealt *at later stages* as a *more complete record is* 

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developed." Transferred Action, Dkt. 210 at 5 (emphasis added). The "record" now consists of two-plus years of discovery, over 25,000 Google documents, and 23 depositions of Google witnesses—yet Sonos cannot identify any evidence that Google knew of or had the specific intent to infringe the '033 or '966 patents pre-suit.

Forced to concede this, Sonos argues that Google was "at a minimum, willfully blind to its infringement. Opp. at 24. This secondary argument also fails because none of the purported "evidence" cited demonstrates—as would be required for Sonos utilize willful blindness as an alternative to actual knowledge of the patents—that Google "subjectively believed there was a high probability" that its products infringed the '033 and '966 patents or that Google deliberately avoided learning about that infringement. *Vasudevan Software, Inc. v. TIBCO Software Inc.*, 2012 WL 1831543, at \*5 (N.D. Cal. May 18, 2012). In fact, Google did the opposite, assessing the allegations and accused products to form sufficient knowledge to file declaratory noninfringement claims. <sup>11</sup>

Sonos's citations to its technical experts are inapposite as they cannot opine on Google's subjective intent. Moreover, the excerpts merely discuss their understanding of the law for indirect infringement, their disagreement with Google's experts' noninfringement opinions, Google help pages on casting and speaker grouping, and mischaracterizations of Google's patent showdown positions. Opp. at 24 (citing Exs. G & L). None of these paragraphs identify *any* facts suggesting that Google *subjectively* believed that its products were infringing, that Google engaged in "active efforts . . . to avoid knowing about" its infringement, or that Google "purposefully and culpably encourage[d]" another party to infringe. *Largan Precision Co, Ltd v. Genius Elec. Optical Co.*, 86 F. Supp. 3d 1105, 1119 (N.D. Cal. 2015); *DSU Med. Corp. v. JMS Co.*, 471 F.3d 1293, 1307 (Fed. Cir. 2006). The help pages generically reference casting and grouping of speakers—which Sonos admits is broader than the claimed inventions—such that the instructions "do not evidence a specific intent to encourage infringement, since they teach a [use] which [Google] could have reasonably

Sonos's contention that Google represented "it had exactly as much knowledge as it needed to determine that it was not infringing, but lacked any reason to know that it was or could be infringing" is both false and nonsensical. Opp. at 25. If Google had enough knowledge to determine it was not infringing, it would lack any reason to believe it was infringing. Moreover, Google's noninfringement position is based on analysis that was done *after* Sonos sent a draft complaint.

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believe was non-infringing." *Vita-Mix Corp. v. Basic Holding, Inc.*, 581 F.3d 1317, 1329 (Fed. Cir. 2009). Sonos also fails to indicate how its interrogatory response, which merely parrots the willful blindness standard, discloses any disputed facts. <sup>12</sup> *See* Opp. at 24 (citing Ex. Q at 347).

As for the '885 patent, Sonos again points to an order from the pleading stage noting that "a jury could plausibly conclude" that the draft amended complaint provided notice. See Opp. at 24. But Sonos again fails now to identify any evidence in the record demonstrating Google's state of mind. On the contrary, Google's lack of specific intent to infringe or subjective belief of a high risk of infringement is shown by its prompt implementation of redesigns after the Court's September and October 2022 orders on the '885 patent. Mot. at 20; see Google LLC v. Princeps Interface Techs. LLC, 2020 WL 1478352, at \*3 (N.D. Cal. Mar. 26, 2020) (noting that implementing a redesign "would show Google's good faith attempt to avoid infringement"). And although the Court found it "critical[]" that Sonos filed its amended complaint "forty day[s]" after the meet-and-confer (Transferred Action, Dkt. 210 at 6), Sonos actually filed the motion to amend on January 14, 2021, three days after the meet-and-confer. (*Id.*, Dkt. 39 at 10). At that point, Google had already asserted noninfringement positions and served invalidity contentions for the now-invalidated and dismissed '206 patent (to which the '885 patent is a continuation) and the '966 patent (to which the '885 patent is related). See Dkt. 41 ¶¶ 39, 46 (pleading that the accused products did not have a "zone scene," a term in every independent claim of the '206, '966, and '885 patents). This further demonstrates that Google believed in good-faith it was not infringing and lacked the specific intent to infringe.

Finally, Sonos asserts that Google did not move "as to *post*-complaint willfulness and indirect infringement." Opp. at 24. But the Court's prior order foreclosed this theory: "Recognizing the efficacy of cease-and-desist letters, this order joins those district courts that do not generally allow the complaint to serve as notice." MTD Order at 645. Without adequate facts of Google's pre-suit knowledge, Sonos's willful and indirect infringement claims cannot stand.

Sonos inconsistently contends that Google "at least failed to investigate whether it infringed the asserted patents" in support of its willful blindness theory (Opp., Ex. Q), and that Google must have been "conducting its investigation days, weeks, or months prior to September 28, 2020" to argue that Google had actual knowledge. Transferred Action, Dkt. 211 ¶ 60.

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#### **CERTIFICATE OF SERVICE**

Pursuant to the Federal Rules of Civil Procedure and Local Rule 5-1, I hereby certify that, on February 28, 2023, all counsel of record who have appeared in this case are being served with a copy of the foregoing via the Court's CM/ECF system and email.

/s/ Charles K. Verhoeven Charles K. Verhoeven